

Traumatic Brain Injury—ED Visits

2004*

MASSACHUSETTS RESIDENTS

INJURY CAUSE	INJURY INTENT					Total Number	Percent of Total	Rate per 100,000 ²
	Unintentional	Intentional		Undetermined	Other & Legal ¹			
		Self-inflicted	Assault					
Cut/pierce	264	4	83	2	0	353	0.9	5.5
Drowning/submersion	14	0	1	0		15	< .1	0.2
Fall	15,987	3	6	3		15,999	42.9	249.3
Fire/burn	13	0	3	1		17	0.0	0.3
<i>Fire/flare</i>	8	0	2	1		11	< .1	--
<i>Hot object/substance</i>	5	0	1	0		6	0.0	0.1
Firearm	0	0	5	1	0	6	< .1	0.1
Machinery	28					28	0.1	0.4
Natural/Environmental	45	0		0		45	0.1	0.7
<i>Dog bites</i>	7					7	< .1	0.1
<i>Other bites & stings</i>	7					7	< .1	0.1
<i>All other (e.g. extreme cold)</i>	31	0		0		31	0.1	0.5
Overexertion	168					168	0.5	2.6
Poisoning	44	5	0	7	0	56	0.2	0.9
Struck by, against	7,250		2,259		34	9,543	25.6	148.7
Suffocation	2	2	4	0		8	< .1	--
Transport-related Injuries	8,249	0	1	0	0	8,250	22.1	128.6
<i>Motor vehicle traffic-related</i>	6,958					6,958	18.7	108.4
<i>Occupant</i>	5,988					5,988	16.1	93.3
<i>Motorcyclist</i>	210					210	0.6	3.3
<i>Pedal cyclist</i>	137					137	0.4	2.1
<i>Pedestrian</i>	364					364	1.0	5.7
<i>Unspecified person</i>	233					233	0.6	3.6
<i>Other person</i>	26					26	0.1	0.4
<i>Pedal cyclist, other</i>	772					772	2.1	12.0
<i>Pedestrian, other</i>	45					45	0.1	0.7
<i>Transportation, other</i>	474					474	1.3	7.4
Other-specified & classifiable	105	0	144	0	1	250	0.7	3.9
<i>Human bites</i>	1		26			27	0.1	0.4
<i>Non-powder gun (BB, pellet)</i>	2	0	2	0	0	4	< .1	0.1
<i>Other specified & classifiable</i>	102	0	116	0	1	219	0.6	3.4
Other specified, not classifiable	119	15	539	7	1	681	1.8	10.6
Unspecified	1,011	4	361	4	5	1,385	3.7	21.6
Adverse effects ³						72	< .1	1.1
No cause or intent provided						422	1.1	6.6
TOTALS ⁴	33,299	33	3,406	25	41	37,298	100%	581.3
RATE BY INTENT/per 100,000	519.0	0.5	53.1	0.4	0.6			

Source: MA Emergency Department Discharge Database, MA Division of Health Care, Finance and Policy.

*All data sets from Health Care Finance and Policy are based on a fiscal year. The numbers provided here are based on fiscal year: October 1, 2003 - September 30, 2004 and will be different than numbers generated through the Department's query based system MassCHIP.

¹ Legal Intervention includes injuries resulting from police actions and operations of war.

² Rates are not calculated on counts of less than five. Rates that are based on counts less than twenty may be unstable. Rates provided here are not age-adjusted and may differ slightly from other department publications.

³ Adverse Effects can be related to medical and surgical care procedures, or to the use of therapeutic substances (including allergic reactions).

⁴ Totals do not include subcategory counts. Total percent is presented here as 100% but may be slightly less or more due to rounding.

—An emergency department injury discharge is defined as any case having an ICD9-CM Nature of Injury Code of 800-999 assigned to any of the ICD9 diagnosis fields [cases having the following codes are excluded if no other valid ICD9-CM code is assigned: Certain Adverse Effects (995.0-995.4, 995.6, 995.7, 995.86, 995.89), Complications of Surgical & Medical Care (996-999), and certain Late Effects (909.3, 909.5)]

—ED injury cases subsequently dying in the hospital are excluded from this analysis.

—Only Massachusetts residents with valid MA zip codes are included in this analysis.

—Population data used to calculate rates are based on 2004 population estimates released August 11, 2005 by the US Census Bureau. Estimated 2004 Massachusetts population is 6,416,505. Rates are not age-adjusted.

—Categories and groupings are based on a modified version of the CDC's "Recommended framework of E-code groupings for presenting injury mortality and morbidity data." This framework does not provide for intentionality for certain cause categories as indicated by gray shading.

—Injury subcategories are italicized.

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—Data were extracted and compiled by the Injury Surveillance Program, Center for Health Information, Statistics, Research and Evaluation, MDPH, February 2006.